

**RUBREDOXIN FUSION PROTEINS, PROTEIN
EXPRESSION SYSTEM AND METHODS**

Abstract of the Disclosure

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A novel recombination fusion protein is presented which comprises rubredoxin as the fusion partner. The fusion protein optionally includes an intervening spacer region between the rubredoxin constituent and the fused polypeptide of interest that can contain a proteolytic cleavage site for release of the polypeptide of interest. The fusion protein can contain one or more sites for affinity purification. The invention also includes methods and materials for making and using the rubredoxin fusion protein. Also provided are antigenic compounds and compositions, including vaccines, comprising a rubredoxin as a carrier molecule linked to an antigen or hapten.

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Jill R. Price

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